

Name _____ Date _____

2.2B SIMPLIFYING RADICAL EXPRESSIONS

Simplify each radical expression

1. $\sqrt{72} =$
2. $\sqrt[3]{56} =$
3. $\sqrt{50a^{17}} =$
4. $\sqrt[3]{81a^7} =$
5. $\sqrt{80a^{19}} =$
6. $\sqrt[3]{-64a^{25}} =$
7. $\sqrt{90a^{12}b^{17}} =$
8. $\sqrt[3]{-125a^{28}b^{14}} =$
9. $\sqrt{40a^{11}b^8c^5} =$
10. $\sqrt[3]{216a^{16}b^{12}c^8} =$
11. $\sqrt{54a^{10}b^{15}c^6} =$
12. $\sqrt[3]{32a^5b^{14}c^{21}} =$
13. $\sqrt{\frac{144}{49}} =$
14. $\sqrt{\frac{108a^{15}}{9a^{12}}} =$
15. $\sqrt{\frac{40a^9b^{14}}{5a^5b^7}} =$
16. $\sqrt{\frac{84a^{12}b^9}{7a^3b^6}} =$
17. $\sqrt{\frac{72a^{16}b^{12}}{6a^4b^7}} =$
18. $\sqrt{\frac{90a^{16}b^{22}}{5a^9b^{17}}} =$